

NANDINI NAGAR P.G. COLLEGE

NAWABGANJ, GONDA (U.P.)


PROSPECTUS

**M.Sc. (Ag.) Animal Husbandry &
Dairying**

2013-2014

AFFILIATED TO

**Dr. R.M.L. AVADH UNIVERSITY,
FAIZABAD**


Principal
Nandini Nagar P.G. College
Nawabganj-Gonda (U.P.)

(1)

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Ordinance Governing for M.Sc. (Ag.) Animal Husbandary & Dairying

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ADMISSION RULE

- 1- The Course leading to the Master of Science in Agriculture (Animal Husbandary & Dairying) degree shall extended over two academic years.
- 2- For eligibility to enter the Master of Science in Agriculture (Animal Husbandary & Dairying) course a candidate must have passed the B.Sc. (Ag.) Examination or equivalent examination with 45% marks from any recognized university.
- 3- Not more than 40 candidates be admitted provided the qualify as per university rules.
- 4- This course will be completed in to two year, the detail of different papers studies are as follows-
 - A- M.Sc. (Ag.) Animal Husbandary & Dairying Part-I (Previous)


Paper-I	:-	Cattle & Buffalo Production and Management
Paper-II	:-	Goat Production & Management
Paper-III	:-	Fundamentals of Animal Nutrition
Paper-IV	:-	Statistics
Paper-V	:-	Market Milk & Their Processing
 - B- M.Sc. (Ag.) Animal Husbandary & Dairying Part-II (Final)

Paper-I	:-	Livestock Production and Management
Paper-II	:-	Poultry Production
Paper-III	:-	Sheep rearing and their management
Paper-IV	:-	Milk products and their marketing
Paper-V	:-	Animal Feeding


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EXAMINATION RULE

- 1- The Examination for the degree shall consist of two part.
 - (i) M.Sc. (Ag.) :- Animal Husbandary & Dairying Part-I
 - (ii) M.Sc. (Ag.) :- Animal Husbandary & Dairying Part-II
- 2- Candidate will take M.Sc. (Ag.) Part-I (Previous year) Examination at the first year of the course & M.Sc. (Ag.) Part-II (Final year) at the end of second year of the course.
- 3- A candidate shall be eligible for appearing at the part-I Examination for the M.Sc. (Ag.) (A.H. & Dairying) degree, If he / she has passed B.Sc. (Ag.) or equivalent examination.
 - (a) Being selected on the basis of Admission Test-I prevailing in the year when admission is sought in the college.
 - (b) There should be minimum of 75% attendance in the theory & practical classes separately.
- 4- A candidate who after passing M.Sc. (Ag.) A.H. & Dairying Part-I exam has completed regular course of studies for one academic year and has put in a minimum of 75% attendance in theory & practical separately shall be eligible for appearing in part-II examination for the M.Sc. (Ag.) (A.H. & Dairying).
- 5- There shall be annul examination at the end of each year and candidate will have to pass separately in part-I (Previous year) and part-II (Final year examination) (Separately theory & Practical).
- 6- Candidates who will not complete 75% attendance in theory & Practical separately will not be allowed to appear in the final examination.
- 7- The result of examination shall be given separately in the marks sheets for each year under two heads (Part-A theory & Part-B Practical).


 Head of the Department
 M.Sc. (Ag.) College

- 8- The degree will includes the division on the basis of Aggregate marks obtained in M.Sc. (Ag.) A.H. & Dairying the Part-I & II all the part i.e.
- A) Theory B) Practical
- To Pass in theory papers in each of part-I & II Examination the candidates must have secure at least 36% marks in theory and Practical separately.
- 9- The shall be one special papers/projects/thesis/viva-voce.
- 10- The candidates 'are permitted to write their answer in Hindi / English Medium.
- 11- If candidate is failed in a theory paper by getting less than pass marks, he will be declared successful by giving maximum 8% marks as grace.
- 12- In M.Sc. (Ag.) A.H. & Dairying Part-I & II the candidate must obtain 36% marks in a part-A theory & Practical separately shall be declared Successful. The unsuccessful candidate shall be permitted to avail the facilities of re-examination in one theory papers under marks / division improvement.
- 13- A candidate must complete the course of study for the degree of Master of Science in (Ag.) (A.H. & Dairying) and pass the final year examination within a total period of four years commencing from his / her first admission in the M.Sc. (Ag.) (A.H. & Dairying).
- 14- The division shall be assigned to the successful candidates on the following basis. Third division 36% and above but below 48% of the aggregate marks. Second division 48% and above but below 60% of the aggregate marks. First division 60% and above the aggregate marks distinction 75% or above.



Dr. N. K. Singh
Principal, G. D. S. College
G. D. S. College, G. D. S. College

A student securing 75% or above in any paper shall be declared to have obtained distinction in that provided he / she passed in all the papers in first attempt and this fact shall be mentioned in the degree. Distinction obtained in any theory papers shall be mentioned in the degree awarded to the candidates.

The marks of the part-I and part-II examination of theory & practical respectively M.Sc. (Ag.) (A.H. & Dairying) will count to gather for a place on the basis of pass list for determination of division.



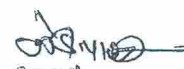
Number of papers: 2013
Date of examination: 11/12

**SCHEME OF EXAMINATION
FOR
M.SC. (AG.) ANIMAL HUSBANDARY & DAIRYING
PART-I (PREVIOUS YEAR)**

Part-A Theory	Papers Name	Max. Marks	Min. Pass Marks
Paper-I	Cattle and Buffalo Production and Management	50	18
Paper-II	Goat Production & Management	50	18
Paper-III	Fundamentals of Animal Nutrition	50	18
Paper-IV	Statistics	50	18
Paper-V	Market Milk & Their Processing	50	18
Total		250	90

Part-B Practical	Max. Marks	Min. Pass Marks
Combined Practical Based on Theory paper-I, II, III, IV & V.	250	90
Total	250	90

Particular	Max. Marks	Min. Pass Marks
Part-A – Theory	250	90
Part-B – Practical	250	90
Grand Total	500	180

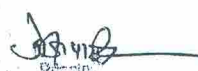

 Principal
 P.G. College

**SCHEME OF EXAMINATION
FOR
M.SC. (AG.) ANIMAL HUSBANDARY & DAIRYING
PART-II (FINAL YEAR)**

Part-A Theory	Papers Name	Max. Marks	Min. Pass Marks
Paper-I	Livestock Production and Management	50	18
Paper-II	Poultry Production	50	18
Paper-III	Sheep rearing and their management	50	18
Paper-IV	Milk products and their marketing	50	18
Paper-V	Animal Feeding	50	18
Total		250	90

	Part-B Practical	Max. Marks	Min. Pass Marks
(a)	Combined Practical Based on Theory Paper-I, II, III, IV & V	200	72
(b)	Special Paper/Project Work/Thesis	50	18
(c)	Viva-voce and Tour	50	18
	Total	300	108

Particular	Max. Marks	Min. Pass Marks
Part-A – Theory	250	90
Part-B – Practical	300	108
Grand Total	550	198


 Controller of Examinations
 M. Sc. (Ag.) College
 Kalyanpur, Gonda (U.P.)

SYLLABUS

M.SC. (AG.) PART-I ANIMAL HUSBANDARY & DAIRYING

Paper-I – Cattle & Buffalo Production and Management

Role of dairy animal in rural economy. Breeds of Cattle in India, Feeding of dairy Cow. Breeds of Buffaloes. Feeding of Buffaloes, Marking, dehorning, Castration, Grooming, Determination of age of cattle, Detection of heat in cow, Housing of cow, factor effecting the efficiency of dairy animals. Dairy farm records, Management of cow after calving, care and management of dairy calf. Pregnancy diagnosis and vaccination schedule for dairy cattle. Important prevalent diseases like H.S., FMD, Mastitis, Milk fever, calfscur, bloat, digestive disorders.

Paper-II – Goat Production & Management

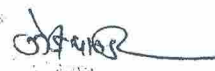
Contribution of goat development in India. Contribution of goat in national economy, Breeding of goat for milk and for meat. Feeding of goat and goat farm records.

Breeds of Indian goats.

- (1) Temperate Himalayan region-Kashmiri, Gaddi, Chegu.
- (2) Dry Northern region-Jamunapari, Barbari, Beetal.
- (3) Central region-Marwari, Sirohi, Mehsana, Kathiawari or Kutchi.
- (4) Southern region-Surti, Malabari.
- (5) Eastern region-Gunjam, Bengal goat, Assam hill.

Paper-III – Fundamentals of Animal Nutrition

Constituents of animal body and their functions- water, function of water, water requirement, carbohydrates, definition & function of carbohydrates, fat and their function, protein, minerals and vitamins and their function in animal body.


 Assistant Registrar
 Uttarakhand Veterinary & Animal Sciences University
 Dehra Dun (U.P.)

Classification of feeding stuff and its nutritive value. Digestion and absorption, factors affecting digestion, metabolism of carbohydrate, fat and protein.

Paper IV – Statistics

Measures of central tendency mean, median, mode, variance, coefficient of variation.

~~Correlation~~ Meaning of correlation, type of correlation, Karl Pearson and Limits of Correlation.

Test of significance-Test of significance base of T-Test, Z-Test and F-Test.

Analaysis of Variance-General and basic principles of experimental design specially CRD, RBD, SPD and LSD.

Paper-V – Market Milk And Their Processing

The market milk industry in India, Indian standard, composition of milk of different species, factor effecting composition of milk, food and nutritive value, Physico-chemical properties of milk constituents, Properties of milk and public health, Collection of milk, cooling and transportation of milk, action of milk on metals, manufacture, packaging and storage of pasteurized milk, Judging and grading of milk.



M.SC. (AG.) PART-II ANIMAL HUSBANDARY & DAIRYING

Paper-I – Livestock Production and Management

Place of Livestock in the national economy, important Indian and Exotic breeds of Cow & Buffalo, selection, Basis of selection, Importance of selection, Individual selection, Pedigree selection, Progeny test selection, Show ring selection, breeding system, Inbreeding, Out breeding, Importance of out breeding, out crossing, cross breeding. Importance of cross breeding, Grading up and hybridization, Animal housing-principle, Space requirements, Location & Site, loose housing system and conventional dairy barn, Aims and objects of successful cattle management, its requirements practices dealing with breeding, feeding, labour marketing & record keeping.

Paper-II – Poultry Production

Importance of poultry keeping, Important poultry breeds, Poultry management, Hatchery Management, Management of young Chicks, Brooding, Management of Chicks, Management of growing Pullets, Management of Layer, Housing-Location & Site, space requirements, Feeding of Poultry and Poultry farm records. Important poultry diseases like-Ranikhet, Fowl pox, Fowl cholera, Bronchitis, Fowl Typhoid, Fowl Coryza & Coccidiosis.

Paper-III – Sheep rearing and their management

Role of sheep husbandry in rural economy. Important breeds of Indian & Exotic breeds, sheep reproduction technique, management of Ewe, housing- Location & Site, Principle-space requirements and their cost, Feeding & management of sheep, Essential Farm Production records.

Paper-IV – Milk products and their marketing

Sanitary production of milk, clean and safe milk, cost of milk production, factors affecting cost of milk production. Milk products-


18.10.11